Finding Sci-Tech Information
compiled by Jeff Rothal (updated March 2006)

1) BOSUN (the Dudley Knox Library online catalog)
http://library.nps.navy.mil/uhtbin/webcat

2) Databases
http://library.nps.navy.mil/home/databases.htm

ACM (Association for Computing Machinery) Digital Library
Full-text for articles published in ACM periodicals and proceedings
http://libproxy.nps.navy.mil/login?url=http://www.acm.org/dl/Search.html

CSA (Cambridge Scientific Abstracts) includes Aerospace & High Technology, Aquatic Sciences & Fisheries Abstracts, Computer & Information Systems Abstracts, Electronics & Communications Abstracts, Engineered Materials Abstracts (Advanced Polymers, Composites Industry Abstracts, Engineered Materials Abstracts, Ceramics), GeoRef (geosciences), Internet & Personal Computing Abstracts, Mechanical Engineering Abstracts, METADEX (metals & their alloys), Meteorological & Geoastrophysical Abstracts, National Technical Information Service (NTIS), Safety Science & Risk, Solid State & Superconductivity Abstracts)
http://libproxy.nps.navy.mil/login?url=http://www.csa.com/htbin/dbrng.cgi?username=nps&access=nps984&cat=default

DTIC STINET (Defense Technical Information Center/Scientific & Technical Information Network)
A clearinghouse for a variety of defense-related scientific and technical publications. Through the STINET database, DTIC indexes and abstracts these reports, and in some cases, full-text.
http://stinet.dtic.mil/

Engineering Village 2 (including Compendex, NTIS, and ENGnetBASE)
See below for ENGnetBASE description; Compendex is the most comprehensive interdisciplinary engineering database in the world with 7.5 million records referencing 5,000 engineering journals and conference.
http://libproxy.nps.navy.mil/login?url=http://www.engineeringvillage2.org

IEEE Xplore (full-text access to over 12,000 publications produced by in conjunction with the Institute of Electrical and Electronics Engineers [IEEE] and the Institution of Electrical Engineers [IEE]. Includes journal articles, conference papers and technical standards).
http://libproxy.nps.navy.mil/login?url=http://www.ieee.org/ieeexplore/

INSPEC (via Web of Knowledge); citations and abstracts to the literature in physics, electrical engineering, electronics, telecommunications, computers, control technology, and information technology. Covers journal articles, conference papers, significant books, technical reports, dissertations, and patents.
http://libproxy.nps.navy.mil/login?url=http://isiknowledge.com/

Jane's Online (full-text reports, articles and image files relating to the world's armed forces and defense industry, geopolitical arena and various transportation systems)
http://libproxy.nps.navy.mil/login?url=http://online.janes.com/

Web of Science (Science Citation Index Expanded; via Web of Knowledge)
A multidisciplinary index to the journal literature of the sciences. It fully indexes 5,900 major journals across 150 scientific disciplines.
http://libproxy.nps.navy.mil/login?url=http://isiknowledge.com/

ENGnetBASE; online access to the full text of the CRC Press Engineering Handbook series. Subject areas include civil engineering, telecommunications, electronic engineering, materials science, chemical technology, computer science, avionics, manufacturing, signal processing, and mechanical engineering
http://libproxy.nps.navy.mil/login?url=http://www.engnetbase.com/

Knovel (also listed under Databases on the Library web site); interactive access to the full-text content of over 500 engineering and scientific handbooks and databases, and the ability to manipulate and search across this entire collection. Subjects include: Adhesives, Coatings, Sealants & Inks; Aerospace & Radar Technology; Ceramics & Ceramic Engineering; Construction Materials & Engineering; Electrical & Power Engineering; Environment & Environmental Engineering; General Engineering References; Mechanics & Mechanical Engineering; Metals & Metallurgy; Plastics & Rubbers; Safety, Health & Hygiene; Semiconductors & Electronics, and more.
http://libproxy.nps.navy.mil/login?url=http://www.knovel.com

Lecture Notes in Computer Science; over 35,000 papers containing the latest results from all areas of computer science and information technology research, development, and education.
http://libproxy.nps.navy.mil/login?url=http://link.springer-ny.com/link/service/series/0558/tocs.htm

DON'T FORGET INTERLIBRARY LOAN/DOCUMENT DELIVERY AS A FAST WAY OF GETTING PAPERS AND OTHER MATERIALS THAT YOU NEED!

Database Search Tips

To *increase* the number of results (comprehensiveness):

- Use the "**OR**" connector and alternative terminology (example: SATCOM **OR** satellite communications)
- Use truncator or wildcard symbols (satellite communication*)
  http://library.nps.navy.mil/home/truncators.htm
- Break your search phrase up into its component concepts and combine those concepts with the **AND** connector (satellite **AND** communication)

To *decrease* the number of results (increase precision/relevancy):

- Increase the number of concepts in the search by combining additional terms with the "AND" connector or a proximity connector such as NEAR or SAME (if allowed) (satellite communication **AND** military **AND** jamming)
- Use quotation marks around exact phrases (doesn't work in every database) ("satellite communication")
- Limit your search to just certain fields (e.g., Title)